



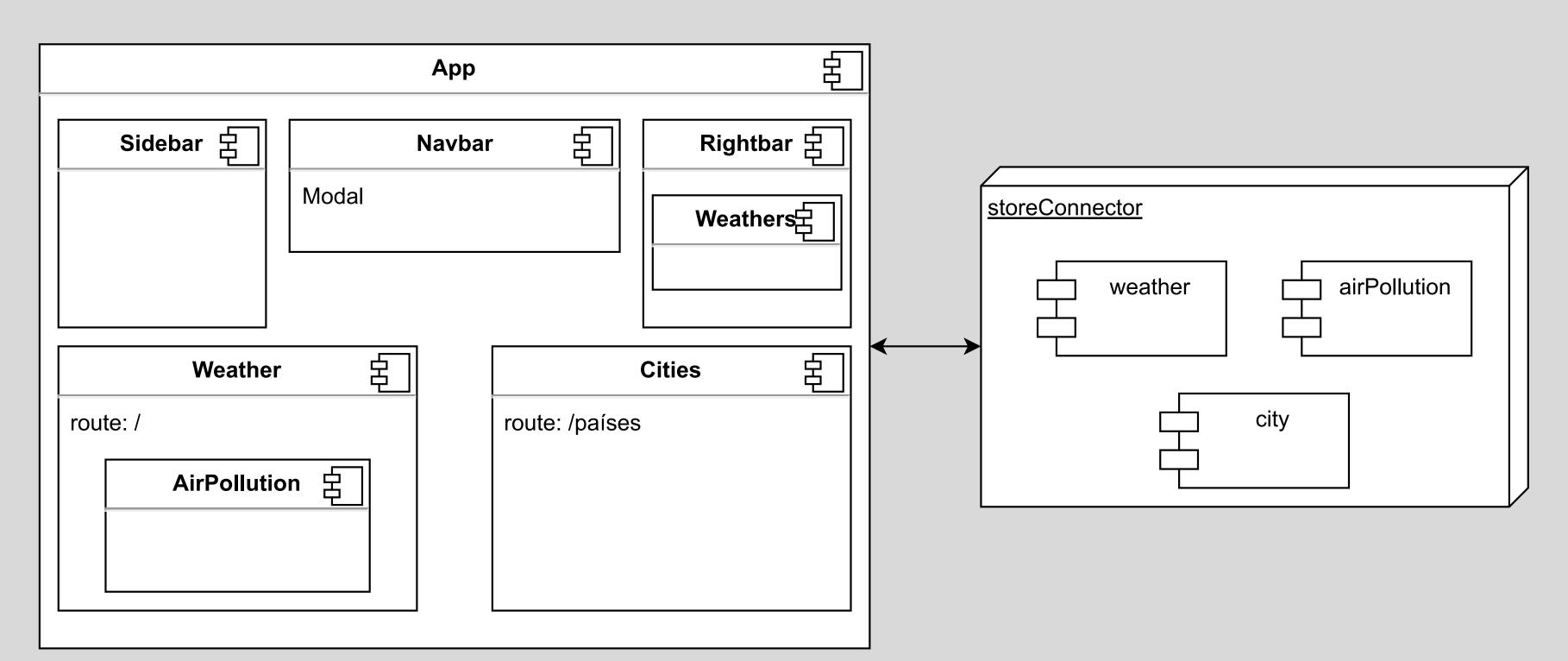
Open Weather APL



Se utilizaron consultas de:

Demo

Arquitectura



Store: weather.ts

});

```
const createWeatherStore = () => {
  const { subscribe, set, update } = writable<WeatherState>({
    weather: {
      dt: '',
                                               import { writable } from 'svelte/store';
      temp: 0,
                                               import { DateTime } from 'luxon'
                                               import type { Weather } from '../scripts/weather'
      feels like: 0,
                                               import type { PeriodTemp } from '../scripts/constants';
      temp min: 0,
                                               import { periodsTemp } from '../scripts/constants';
      temp max: 0,
      pressure: 0,
                                                interface WeatherState {
      humidity: 0,
                                                  weather: Weather
      type weather: ''
                                                  weathers: Weather[],
                                                  daily_weathers: Weather[][],
    weathers: [],
                                                  selectedPeriod: PeriodTemp
    daily weathers: [],
    selectedPeriod: 'Hoy',
```

Store: weather.ts

```
const fetchWeather = async (latitude: number, longitude: number) => {
 try {
    const response = await fetch(`https://api.openweathermap.org/data/2.5/weather?
    const data = await response.json();
    const weather: Weather = {
     dt: DateTime.fromSeconds(data.dt).toLocal().toFormat('ff') || '',
     temp: data.main.temp,
     feels_like: data.main.feels_like,
     temp min: data.main.temp min,
     temp_max: data.main.temp_max,
     pressure: data.main.pressure,
     humidity: data.main.humidity,
     type weather: data.weather[0].main,
   update((state) => {
     state.weather = weather;
     return state;
   catch (error) {
    console.error(error);
```

Store: weather.ts

```
const filterTodayWeather = (weathers: Weather[]): Weather[] => {
 return weathers.filter((weather) =>
   DateTime.fromFormat(weather.dt, 'ff').hasSame(DateTime.now().toLocal(), 'day'));
 const filterNextDaysWeathers = (weathers: Weather[]): Weather[][] => {
   let result: Weather[][] = [];
   for(let i=0; i<6; i++){
     let total = (weathers.filter((weather) =>
       DateTime.fromFormat(weather.dt, 'ff').hasSame(DateTime.now().toLocal().plus({ days: i }), 'day')
     ));
     result.push(total);
   return result;
return {
 subscribe,
 fetchWeather,
 fetchWeathers,
 filterTodayWeather,
 filterNextDaysWeathers
```

Store: airPollution.ts

```
interface CityPollution {
  airPollution: AirPollution;
  airPollutions: AirPollution[];
interface AirPollutionState {
   citiesPollution: { [key: number]: CityPollution };
const createAirPollutionStore = () => {
  const { subscribe, set, update } = writable<AirPollutionState>({
    citiesPollution: {},
  });
```

Store: city.ts

```
interface CityState {
 cities: City[]
  selectedCity: number
const createCityStore = () => {
 const initialCities= [
       name: 'Santiago',
       country: 'Chile',
       latitude: -33.45694,
       longitude: -70.64827,
       imageURL: './src/assets/santiago.jpg',
       id: 0,
```

```
const { subscribe, set, update } = writable<CityState>({
  cities: initialCities,
  selectedCity: 0,
});
 const fetchData = async (id) => {
    await Promise.all([
            weatherStore.fetchWeather(id),
            weatherStore.fetchWeathers(id),
            airPollutionStore.fetchAirPollution(id)
```

Store: storeConnector.ts

```
const createConnectorStore = () => {
    const { subscribe, update, set } = writable({
        status: 'loading',
        todayWeatherForThisCity: undefined,
        todayForeCastForThisCity: undefined,
        todayWeatherForAllCities: undefined,
        todayPollutionForThisCity: undefined,
        todayPollutionForAllCities: undefined
    });
     const setLoading = () => {
        update(state => ({ ...state, status: 'loading' }));
```

Store: storeConnector.ts

```
let cities = get(cityStore).cities;
cityStore.fetchCities(cities).then(() => {
    cityStore.subscribe(async $cityStore => {
    if ($cityStore) {
        let selectedCity: City = $cityStore.cities[$cityStore.selectedCity];
        let cities: City[] = $cityStore.cities;
        await cityStore.fetchData(selectedCity.id);
        const todayWeatherForThisCity = get(weatherStore).citiesWeather[selectedCity.id]?.weather;
        const todayPollutionForThisCity = get(airPollutionStore).citiesPollution[selectedCity.id]?.airPollution;
        const todayForeCastForThisCity = get(weatherStore).citiesWeather[selectedCity.id]?.weathers;
        const todayWeatherForAllCities = cities.map(city => get(weatherStore).citiesWeather[city.id]?.weather);
        const todayPollutionForAllCities = cities.map(city => get(airPollutionStore).citiesPollution[city.id]?.airPollution);
        set({
            status: 'loaded',
           todayWeatherForThisCity,
           todayForeCastForThisCity,
           todayWeatherForAllCities,
           todayPollutionForThisCity,
           todayPollutionForAllCities
        });
});
});
```

Componentes: App.svelte y Router

});

</script>

```
<script lang="ts">
  import { onMount } from 'svelte';
  import Router from 'svelte-spa-router';
                                                                    <main class="app">
  import Navbar from './components/Navbar.svelte';
                                                                      <div class="columns is-mobile is-gapless">
  import Cities from './components/cities/Cities.svelte';
                                                                        <div class="column widget is-custom is-1">
  import Weathers from './components/weather/Weathers.svelte';
                                                                          <Sidebar />
  import Sidebar from './Sidebar.svelte';
                                                                        </div>
                                                                        <div class="column is-custom is-8">
  import Rightbar from './Right.svelte';
                                                                          <Navbar />
  import { cityStore } from './stores/city';
                                                                          <Router {routes} />
                                                                        </div>
  const routes = {
                                                                        <div class="column widget is-custom is-3 no-shrink">
    '/': Weathers,
                                                                          <Rightbar />
    '/cities': Cities,
                                                                        </div>
                                                                      </div>
                                                                    </main>
  onMount(() => {
    if (localStorage.getItem('cities')) {
      cityStore.setCities(JSON.parse(localStorage.getItem('cities')));
```

Componentes: Navbar.svelte

```
import setup lang="ts">
import Modal from './Modal.svelte';
import CityForm from './CityForm.svelte';
import { cityStore } from '../stores/city';

let showModal = false;
const { subscribe, setSelectedCity } = cityStore;
let selectedCity = 0;

subscribe((state) => {
    selectedCity = state.selectedCity;
});
</script>
```

```
<div class=" navbar widget bg">
  <div class="navbar-start">
    <div class="control">
      <div class="select">
        kselect
          bind:value={selectedCity}
          on:change={() => setSelectedCity(selectedCity)}
          {#each $cityStore.cities as city, index}
            <option value={index}>{city.name}</option>
         {/each}
        </select>
     </div>
    </div>
   <button class="button mx-2" on:click={() => (showModal = true)}
      >Añadir ciudad</button
```

Componentes: Modal.svelte

```
<script lang="ts">
  export let showModal: boolean;

let dialog: HTMLDialogElement;

$: if (dialog && showModal) dialog.showModal();
$: {
  if (dialog && !showModal) {
      dialog.close();
    }
}
</script>
```

```
<dialog
 bind:this={dialog}
 on:close={() => (showModal = false)}
 on:click|self={() => dialog.close()}
  <div on:click|stopPropagation>
   <slot name="header" />
   <hr />
   <slot />
   <hr />
   <!-- svelte-ignore ally-autofocus -->
   <button autofocus on:click={() => dialog.close()}>Cerrar</button>
 </div>
</dialog>
```

Componentes: CityForm.svelte

```
let nameValue: string;
let nameStatus: Status;
const name = writable('');

name.subscribe((value) => (nameValue = value));

name.subscribe((value) => {
   const { valid, message } = validate(value, [required]);
   nameStatus = { valid, message };
});
```

```
const dispatch = createEventDispatcher();
async function handleSubmit() {
  let cityLength: number;
  cityStore.subscribe((value) => {
    cityLength = value.cities.length;
  });
  const newCity: City = {
    name: nameValue,
    country: countryValue,
    latitude: Number(latitudeValue),
    longitude: Number(longitudeValue),
    imageURL: imageURLValue,
    id: cityLength,
  storeConnector.setLoading();
  cityStore.addCity(newCity);
  dispatch('update:closeModal', false);
```

Componentes: FormInput.svelte

```
<script lang="ts">
 import { createEventDispatcher } from 'svelte';
 import type { Status } from '.../scripts/validation';
  export let name: string;
 export let modelValue: string;
  export let status: Status;
 const dispatch = createEventDispatcher();
 function handleInput(event: Event) {
    const value = (event.target as HTMLInputElement).value;
   dispatch('update:modelValue', value);
</script>
```

Componentes: Cities.svelte

```
<script>
  import { storeConnector } from '../../stores/unifiedStorage';
 import ItemCity from '../weather/ItemCity.svelte';
 let state;
 storeConnector.subscribe((value) => {
    state = value;
 });
</script>
<div>
 <!-- this is the multi country weather not air pollution -->
 {#if state.status === 'loading'}
   Loading...
 {:else}
   {#each state.todayWeatherForAllCities as weather, i (i)}
     <ItemCity dayWeather={weather} id={i} />
   {/each}
 {/if}
</div>
```

CONCLUSIONES



